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2025年6月25–27日

SHANGHAI, CHINA
JUNE 25-27, 2025

2ND INTERNATIONAL CONFERENCE OF ADVANCED MEDICAL ENGINEERING

http://i-came2025.com/

I-CAME2025

第二届国际先进医学工程大会

THE 2ND INTERNATIONAL CONFERENCE OF ADVANCED MEDICAL ENGINEERING

PROGRAM 会议手册

主办单位

先进纤维材料全国重点实验室
东华大学生物与医学工程学院
上海中侨职业技术大学食品药品学院
湖南大学材料科学与工程学院

SPONSORED BY

State Key Laboratory of Advanced Fiber Materials
College of Biological Science and Medical Engineering, Donghua University
School of Food and Pharmacy, Shanghai Zhongqiao Vocational and Technical University
College of Materials Science & Engineering, Hunan University

Welcome Words

Dear Colleagues and Friends:

We are pleased to welcome you to the 2nd International Conference of Advanced Medical Engineering (I-CAME2025) with Special 70th Celebration in Shanghai, China.
International Congress of Advanced Medical Engineering (I-CAME) was initiated by Prof. Teoh Swee Hin in 2023, The 1st International Congress of Advanced Medical Engineering was held in Changsha, China,

The 2nd International Conference on Advances in Medical Engineering (I-CAME2025) aims to strengthen these multidisciplinary partnerships, uniting engineers, clinicians, and researchers from across the globe for high-level scientific exchange. We have invited more than 90 speakers and more than 24 are from overseas. We have plenary speakers such as Prof Wong Tein a renowned expert in ophthalmology, and Dean Medical School Tsinghua, Prof J Vacanti from Boston Children's Hospital to name a few to inspire us. This year's conference will also spotlight entrepreneurship, with E-Awards recognizing outstanding young professionals driving innovation.

Despite global challenges, I-CAME2025 stands as a testament to the power of international collaboration in advancing medical science. Join us to share ideas, forge partnerships, and shape the future of healthcare innovation.

On Behalf of the Organizing Committee Chair of I-CAME2025

Prof. Swee Hin Teoh

Prof. Xiumei Mo

Scientific Committee:

Chairman: Changsheng Liu, Wong Tien Yin

Members:

Yanan Du, Hanry Yu, Joseph Vacanti, Xiahua Zhou, Changyou Gao, Bian Liming, Goh Bee Tin, Chenjie Xu, Min Wang, ZuYong Wang, Zhou Li, Michael Wagel, Chia-Hung Chen, Jeremy Teo, Wai Yee Yeong, Xiaoyu Zhang, Xiaojing Chen, Tey Hong Liang, Liumin He, Xiaoshan Wu, Jingwei Xie, Guangyin Yuan, Ng Kee Woei, Won Jong Kim, Lei Yang, Hélder Almeida Santos, Yuan Ping, Jun Li, Chaoliang He, Ruibing Wang, Hiroyuki Ijima, Linpeng Fan, Zhengwei You, Zhigang Chen, Xiangyang Shi, Gareth R. Williams, Chaozong Liu, Shengmin Zhang, Qiqing Zhang

Organizing Committee:

Chairman:

Prof. Teoh Swee Hin, Hunan University, China
Prof. Xiumei Mo, Donghua University, China

Members:

Associate Prof. Jinglei Wu, Donghua University, China
Prof. Xiangyang Shi, Donghua University, China
Associate Prof. Hongsheng Wang, Donghua University, China
Associate Prof. Binbin Sun, Donghua University, China

Conference Secretariat:

Associate Prof. Binbin Sun, Donghua University, China

特别鸣谢

This conference was financial supported by Universities and companies, we appreciate the following sponsors :

先进纤维材料全国重点实验室	STATE KEY LABORATORY OF ADVANCED FIBER MATERIALS
东华大学 生物与医学工程学院	College of Biological Science and Medical Engineering Donghua University
上海中侨职业技术大学 食品药品学院	School of Food and Pharmacy, Shanghai Zhongqiao Vocational and Technical University
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CONFERENCE VENUE:

上海富悦大酒店
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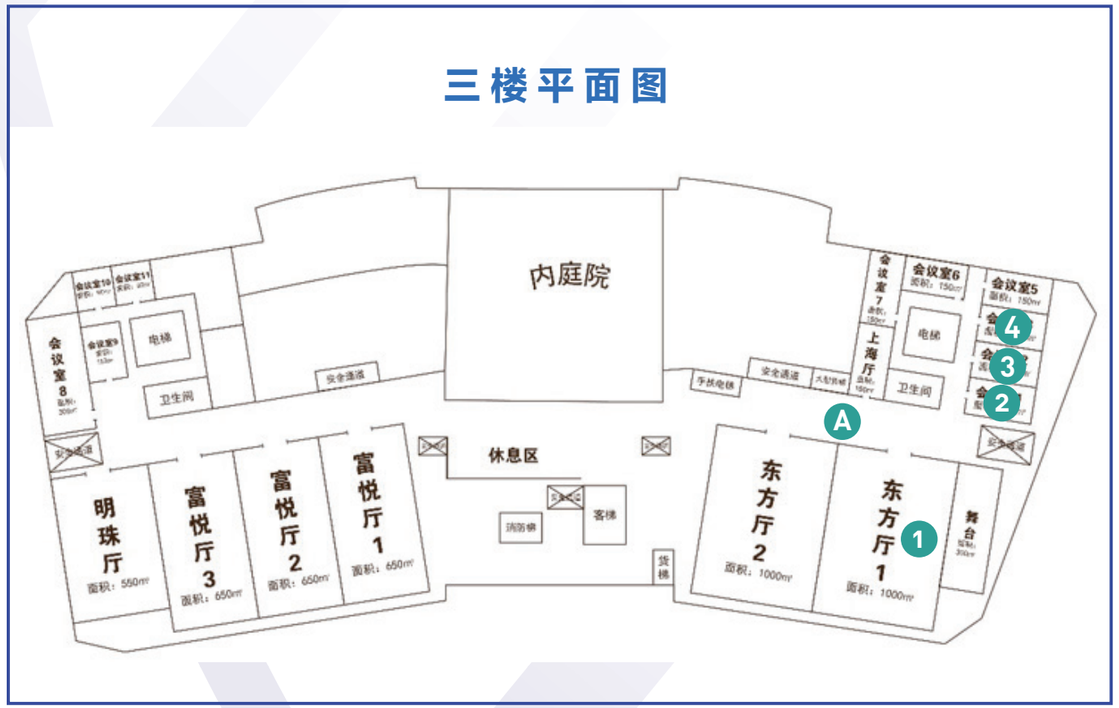
MAP

3 ird Floor



MAP

2nd Floor

二楼平面图

Conference rooms:

1. No.1 Dongfang Hall
2. No.1 Meeting room
3. No.2 Meeting room
4. No.3 Meeting room

Booth Place:

- A Dongfang Hall doorway
- B 2nd Floor No.1 Yuegui Hall
  27th Dinner Place

Plenary Speakers

Prof. Changsheng LIU, Shanghai University, China

Prof. Liu Changsheng, Academician of Chinese Academy of Sciences, has been engaged in the research of biomaterials for more than 30 years. He has developed a variety of bioactive regenerative materials and novel techniques for tissue repairing and regeneration. Under his leadership, his group has developed the artificial bones made of self-setting calcium phosphates, which was approved in clinic application. Currently, the products have been widely applied in orthopedics for bone injury. Moreover, by using genetic engineering techniques, recombinant human bone morphogenetic protein-2 (rhBMP-2) has been achieved in large-scale production, and rhBMP-2-loaded biomaterials with higher osteoinductive capacity were fabricated, promoting the repair of bone injuries. He raised new concept of materiobiology and guided frontier research of bioactive materials and creative clinic therapy. He published over 900 SCI articles such as Chemical Reviews, PNAS, Science Advances, Nature Communication, and 5 books. Because of excellent innovations and significant contributions, Dr. Liu has been awarded lots of honors including National Natural Science Award, National Science and Technology Progress Award, Ho Leung Ho Lee Foundation Innovation Award, Fellow of American Institute for Medical and Biological Engineering, Bioactive Materials Lifetime Achievement Award, etc.

Prof Joseph P.Vacanti, Massachusetts Gen Hospital, USA

Prof Joseph P. Vacanti received the medical degree with high distinction from the University of Nebraska College of Medicine, Omaha, in 1974, and the M.S. degree from Harvard University, Cambridge, MA.,He is currently the John Homans Professor in Surgery at Harvard Medical School, Boston, MA. in addition, he serves as Surgeon in Chief and Chief of Pediatric Surgery at the Massachusetts General Hospital for Children, Boston. He is a Cofounder and Editor of the journal Tissue Engineering. He has been working in the field of tissue engineering since its beginnings in the early 1980s—a mission that stems from his long-held interest in solving the problem of organ shortages. His approach to developing tissue involves a scaffold made of an artificial biodegradable polymer, seeding it with living cells, and bathing it in growth factors. The cells can come from living tissue or stem cells. The cells multiply, filling up the scaffold, and growing into a 3-D tissue. Once implanted in the body, the cells recreate their proper tissue functions, blood vessels grow into the new tissue, the scaffold melts away, and lab-grown tissue becomes indistinguishable from its surroundings.,Dr. Vacanti is a member of the American College of Surgeons, American Pediatric Surgical Association, American Society of Transplant Surgeons, and Tissue Engineering Society in addition to many others. He was recently the recipient of the Thomas Sheen Award, presented by the New Jersey Chapter of the American College of Surgeons, and the John Scott Award, which was presented by the city of Philadelphia. The John Scott Award is given to “the most deserving” men and women whose inventions have contributed in some outstanding way to the “comfort, welfare, and happiness” of mankind.

Prof. Tien Yin Wong, Tsinghua University, China

Prof Tien Wong completed medical school at the National University of Singapore (NUS), and obtained a MPH and PhD from Johns Hopkins University, USA. He completed residency clinical training in ophthalmology at the Singapore National Eye Centre, with retinal fellowships at the University of Wisconsin, Madison, USA and the University of Sydney, Australia. Prof Wong is a physician-scientist-leader, and an internationally renowned ophthalmologist and retinal specialist. Professor Tien Yin Wong is a physician-scientist-innovator who has made significant contribution to the development and application of artificial intelligence (AI) and digital technology in medicine and healthcare, particularly to the screening, detection and prevention of eye and systemic diseases. Over nearly three decades and working in four countries (Singapore, Australia, USA, China), Tien Wong led international, multi-disciplinary teams that combined classic epidemiological studies with data science, translational-implementation-clinical studies that applied the latest advances in AI, including machine learning (ML), deep learning (DL) and generative AI (gen AI). Tien Wong has published >1500 papers with a H-index of >220 (Google Scholar). He is Highly Cited Researcher (2018, 2020, 2021, 2022, 2023, 2024). He has published major papers in AI in the top journals, including New England Journal of Medicine, JAMA, Nature Medicine, Lancet Digital Health, Nature Biomedical Imaging. For his contribution and research on AI, Tien Wong has received Singapore's President's Science Award and President's Science and Technology Award. He is an elected Fellow of the Singapore National Academy of Sciences, international (foreign) Member of U.S. National Academy of Medicine and international (corresponding) Fellow of the Australian Academy of Health and Medical Sciences.

Prof. Hanry Yu, National University of Singapore, Singapore

Hanry Yu is Professor of Physiology (NUSMed), NUS-College, and Mechanobiology (MBI) at the National University of Singapore; and co-leads a cell therapy manufacturing programme (CAMP) at the MIT research entity (SMART) in Singapore. He integrates biomaterials, tissue mechanobiology and engineering, biomedical optics and AI data analytics into solutions for pharmaceutical, environmental, and recently food industries. He has trained many students and staffs in leading universities in the US and Asia; built several institutions and companies, published >250 papers, delivered >250 invited talks, and consulted for international organisations and agencies.

Prof YaNan Du, Tsinghua University, China

Prof Du YaNan: Professor and Vice dean in the School of Biomedical Engineering, Tsinghua University. PI in the Tsinghua-PKU Center of Life Science. His research focuses on developing Micro-engineered Cell-based Assays and Therapy Platform for drug screening, disease study and regenerative therapy.

Prof. Xiaohua Zhou, Peking University, China

Xiaohua Zhou, Distinguished Professor of the Overseas High-Level Talent Recruitment Programs (Innovative Long-term Project) of the Organization Department of the CPC Central Committee, Doctoral Supervisor, Chair of the Department of Biostatistics of Peking University, PKU Distinguished Chair Professor of Beijing International Center for Mathematical Research, Vice Dean of National Institute for Regulatory Science of Drug and Medical Device of Peking University, and Vice Dean of Peking University Chongqing Research Institute for Big Data. Chair of International Biometric Society - China, Chair of the Medical Mathematics Professional Committee of the Chinese Mathematical Society, Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the American Statistical Association (ASA), Fellow of the Institute of Mathematical Statistics (IMS), etc. Professor Zhou is currently the associate editor of Statistics in Medicine, and the editor-in-chief of Biostatistics & Epidemiology, the official journal of IBS-China. He has published more than 280 SCI academic papers in top international statistical and biostatistical journals such as J. R. Statist. Soc. B, Journal of the American Statistical Association, Annals of Statistics, Biometrika, Biometrics, etc., of which more than 170 are the first or corresponding authors. Professor Zhou's research focuses on statistical methods in diagnostic medicine, design and statistical methods in randomized clinical trials, causal inference methods, mathematical and statistical modeling of the occurrence and development of major epidemics, etc.

Professor Teoh Swee Hin, Hunan University, China

Prof Teoh is the Founding Director and Distinguished Changjiang Chair Professor, Center for Advanced Medical Engineering (CAME) at the College of Materials Science and Engineering, Hunan University, China. He majored in Materials Engineering (B Eng with First Class Honors and PhD at Monash University in 1978 and 1982 respectively). He is a Fellow of the Institution of Engineers, Singapore.

Prof Teoh spent 30 yrs (1982-2012) at the National University of Singapore (NUS) and Co-Chaired the Graduate Program in BioEngineering (GPBE). He also Chaired the School of Chemical and Biomedical Engineering (SCBE) with a joint Professorship at the Lee Kong Chian School of Medicine (LKC Med) at Nanyang Technological University (NTU), from 2012-2021. He was awarded the prestigious NTU President's Chair Award for Educational Leadership and for his outstanding research.

He is also the Senior Mentor to the clinical scientists at the National Dental Centre of Singapore for the last 10 years. He is committed to using knowledge to benefit society. He is known for excellence in teaching, research and entrepreneurship. Professor Teoh is a global leader and pioneer in the use of 3D printing technology to manufacture clinical scaffolds for bone tissue engineering. To date, his MedTech company Osteopore Internationals has implanted more than 60,000 scaffolds worldwide. The company has been successfully listed in 2019 (ASX-Australia). His pioneering work on 3D printed scaffolding has earned him the prestigious "Golden Innovation Award" from the Far Eastern Economic Review and the "Notable Engineering Achievement Award" from the Institute of Engineers, Singapore. As part of the SG50 celebrations, he was listed as one of Singapore's leading scientists. His team also received the "2018 Patent Excellence Award" from the Intellectual Property Office of Singapore. Currently, he is focusing on biomaterials, piezoelectric bone tissue engineering and regenerative medicine with research ranging from synthetic bones, blood vessels and skin, to biomimetic bioreactors, to fish collagen, decellularized organs and effect of electromagnetic field on cells. He hopes to eventually translate them into the clinic. With more than 37 Ph.D. graduates, 270 research publications, and 22 patents and technical disclosures, Professor Teoh is a pioneer and outstanding educator with numerous teaching awards in materials science and engineering, bioengineering and translational tissue engineering and regenerative medicine.

Dr Michael Wagel, Princess Alexandra Hospital, Australia

Dr Michael Wagel is a Staff Specialist Plastic and Reconstructive surgeon at the Princess Alexandra Hospital. He undertook surgical training in Adelaide, Brisbane and Perth and was awarded FRACS in plastic and reconstructive surgery in 2012. Michael interrupted training to undertake research and was awarded a PhD from the University of Queensland in 2013. His Research Higher Degree thesis evaluated the behaviour of auto-transplanted muscle to prevent late failures from re-exploration. He also completed a fellowship in hand surgery at St Vincent's Hospital in Melbourne in 2013-14. Michael hold the Academic title of Senior Lecturer at the University of Queensland. He believes the benefits of academic, commercial and clinical collaborations for patients with complex needs. He is the Director of two hospital departments responsible for the manufacture of medical devices at the point of care; the Australian Centre for Complex Integrated Surgical Solutions (ACCISS) and the Herston Biofabrication Institute (HBI). He has undertaken several first in human and subsequent clinical trials investigating bioresorbable 3D printed implants for applications in peripheral nerve, soft tissue and bone regeneration.

Keynote Speakers

Prof. Xiumei MO
Donghua University, China

Prof. Won Jong Kim
Pohang University of Science and Technology, Korea

Prof. Kee Woei Ng
Nanyang Technological University, Singapore

Prof. Guangyin Yuan
Shanghai Jiao Tong University, China

Prof. Liumin He
Sun Yat-sen University, China

Prof. Min Wang
The University of Hong Kong, China

Prof. Liming Bian
South China University of Technology, China

Prof. Zuyong Wang
Hunan University, China

Prof. Xiaoshan Wu
Xiangya Hospital, China

Prof. WaiYee Yeong
Nanyang Technological University, Singapore

Assistant Prof. Jeremy Teo
New York University, Abu Dhabi

Prof. Zhou Li
Beijing Institute of Nanoenergy and Nanosystems, China

Prof. Chenjie Xu
City University of Hong Kong , China

Dr. Xiaoyu Zhang
Editor Adv Science, Wiley, China

Prof. Jingwei Xie
University of Nebraska Medical Center, USA

Prof. Xiaojing Chen
Xiangya School of Stomotology, Central South University, China

Prof. Hélder A. Santos
University of Groningen, Netherlands

Prof. Qiqing Zhang
Institute of Biomedical Engineering, Chinese Academy of Medical Science & Peking Union Medical College

Prof. Goh Bee Tin
National Dental Centre of Singapore, Singapore

Associate Prof. Lei Yang
Zhejiang Academy of Agricultural Sciences, China

Prof. Changyou Gao
Zhejiang University, China

Associate Prof. Chia-Hung Chen
City University of Hong Kong, China

Prof. Jun Li
National University of Singapore, Singapore

Prof. Gareth R. Williams
University College London, UK

Prof. Michiya Matsusaki
Osaka University, Japan

Associate Prof. Tey Hong Liang
National Skin Centre, Nanyang Technological University, Singapore

Prof. Shengmin Zhang
Huazhong University of Science and Technology, China

Prof. Chaoliang He
Changchun Institute of Applied Chemistry, China

Prof. Ruibing Wang
University of Macau, China

Prof. Zhengwei You
Donghua university, China

Prof. Nuo Yu
Donghua university, China

Prof. Xiangyang Shi
Donghua University, China

Prof. Yuan Ping
Zhejiang University, China

Prof. Chaozong Liu
University College London, UK

Research Fellow Linpeng Fan
The University of Melbourne, Australia

Prof. Hiroyuki Ijima
Kyushu University, Fukuoka, Japan

Chief Executive Officer Yujing Lim
Osteopore Limited, Singapore

Dr.Leo Hwa Liang
National University of Singapore

Invited Speakers

Prof. Qihui Zhou
University of Health and Rehabilitation Sciences, China

Associate Prof. Xi Chen
East China University of Science and Technology, China

Associate Prof. Xiaochuan Dai
Tsinghua University, China

Associate prof. Shengcai Qi
Fudan University. China

Dr. Fei Yang
Zhongshan Hospital Fudan University

Prof. Shixuan Chen
University of Chinese Academy of Sciences, China

Assistant Prof. Kun Liang
Nanyang Technological University, Singapore

Dr. Yuqing Yang
Hainan Western Central Hospital，China

Assistant Prof. Sunil Kumar Boda
Indian Institute of Technology (IIT) Madras, India

Dr. Wuqiang Zhu
Mayo Clinic, USA

Prof. Guoqing Pan
Jiangsu University, China

Prof. ZHAO Xin
Hong Kong Polytechnic University, China

Prof. Dongfei Liu
China Pharmaceutical University, China

Associate Chief Physician Jieliang Shen
Bishan Hospital of Chongqing Medical University, China

Associate Research Fellow Juan Wang
Ruijin Hospital Shanghai Jiao Tong University School of Medicine, China

Associate Research Fellow Liang Chen
Wenzhou Institute, University of Chinese Academy of Sciences, China

Assistant Prof. Haoyu Wang
Xi'an Jiaotong University, China

Prof. Shun Duan
Beijing University, China

Prof. Peng Li
Northwestern Polytechnical University, China

Prof. Botao Gao
Guangdong Academy of Sciences, China

Associate Prof. Yang Zhu
Zhejiang University, China

Associate Prof. Kunyu Zhang
South China University of Technology, China

Associate researcher Wentao Cao
Fudan University, China

Prof. Tonghe Zhu
Shanghai University of Engineering Science, P.R. China

Chief Physician Xiaoling Wei
Fudan University Affiliated Stomatological Hospital, China

Prof. Junfeng Shi
Hunan University, China

Assistant Prof. Ning Zhang
The Chinese University of Hong Kong, China

Associate Prof. Zhang Xudong
Sun Yat-sen University, China

Prof. Tao Yi
Donghua University, China

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Prof. Tong Wu
Qingdao University, China

Zhiwen Joseph Lo
Woodlands Health, Singapore

Associate prof. Feihu Wang
Shanghai Jiao Tong University, China

Associate Prof. Navin Kumar Verma
Nanyang Technological University, Singapore

Prof. Ming Ma
Shanghai Institute of Ceramics, Chinese Academy of Sciences, China

Prof. Peifeng Liu
Shanghai Cancer Institute, China

Assistant Prof. Chengchen Guo
Westlake University, China

Assistant Prof. Greeshma Thrivikraman
IIT Madras, India

Prof. Xiaoran Li
Donghua University, China

Prof. Liqun Xu
Southwest University, China

Prof. Fujun Wang
Donghua University. China

Dr. Muhammad Shafiq
Innovation Center of NanoMedicine (iCONM), Kawasaki, Japan

Associate Prof. Keni Yang
Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences, China

Prof. Kui Luo
West China Hospital, Sichuan University, China

Principal Scientist Renzhe Bi
*A*STAR Skin Research Labs, Singapore*

Prof. Weifen Zhang
Shandong Second Medical University, China

Associate Researcher Dawei Li
Jiangnan University, China

Prof. Feng Chen
Fudan University, China

Dr. Muhammad Rafique
Shanghai Jiao Tong University, China

Dr. Yan Xiong
Daping Hospital of the Army Medical University, China

Prof. Tariq Yasin
Pakistan Institute of Engineering and Applied Sciences, Pakistan

I-CAME 2025 Program

25th June 2025	*14:00-20:00*	Pre-registration at Fuyue Hotel Shanghai first floor Poster post up at Fuyue Hotel Shanghai third floor
	17:30-21:00	Welcome dinner in Fuyue Hotel Shanghai first floor, Manhattan Restaurant (曼哈顿餐厅)
26th June 2025	*07:40-08:30*	Registration at Fuyue Hotel Shanghai third floor
		Opening Ceremony No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor
	08:30-08:37	Words of Welcome President, *Donghua University*
	08:37-08:42	Introduction to the I-CAME Prof. Teoh Swee Hin Chair of the I-CAME 2025, *Hunan University*
	08:42-08:47	Welcome Address Prof. Xuanyong Liu Dean of College of Biological Science and Medical Engineering, *Donghua University*
	08:47-08:52	Welcome Address Prof. Libo Gao Dean of College of Materials Science & Engineering, *Hunan University*
	08:52-08:57	Introduction of SKLFPM and "Advanced Fiber Materials" Journal Prof. Meifang Zhu Director of State key Lab for Modification of Chemical Fiber and Polymer Materials
	08:57-09:07	Conference Group Photograph, in the front of the door of Fuyue Hotel Shanghai Building C
		Plenary Speech Chair: Prof. Teoh Swee Hin, Prof. Xiumei Mo No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor
	09:07-09:15	Plenary-1: The Manufacture of Whole Organ on Demand Speaker: Prof. Joseph Vacanti *Massachusetts Gen Hospital, USA*
	09:15-09:40	Plenary-2: Implementation of AI in Healthcare: Challenges and the Road Ahead Speaker: Prof. Wong Tien Yin *Tsinghua University, China*
	09:40-10:05	Plenary-3: Opportunities and Challenges in Aging Bone Regenerative Materials Speaker: Prof. Changsheng Liu *Shanghai University, China*
	10:05-10:30	Plenary-4: Engineering Micro-Physiological Systems (MPSs) as NAMs for Drug Development Speaker: Prof. Hanry Yu *National University of Singapore, Singapore*
	10:30-10:55	Plenary-5: Resolution, Reconstruction and Regulation of Tissue Fibrosis Speaker: Prof. Yanan Du *Tsinghua University, China*
	10:55-11:20	Plenary-6: Methods for Evaluating the Accuracy of Artificial intelligence-based Medical Devices without a Gold Standard Speaker: Prof. Xiaohua Zhou *Peking University, China*

26th June 2025

11:20-11:45	Plenary-7: Towards Next Generation Bioresorbaable Implants Speaker: Prof. Michael Wagels *HBI and PAH, Australia*		
11:45-12:10	Plenary-8: The Future of MedTech in Asia Speaker: Prof. Teoh Swee Hin *Hunan University, China*		
12:10-13:30	Lunch in Manhattan Restaurant, Fuyue Hotel Shanghai first floor		
Chair	Feng Chen, Botao Gao	Tonghe Zhu, Wentao Cao	Peifeng Liu, Jinqiang Wang
	No.1 Meeting Room: Biomimetic Materials and Regenerative Medicine & Advanced Biomaterials	No.2 Meeting Room: Biomimetic Materials and Regenerative Medicine & Advanced Biomaterials	No.3 Meeting Room: Bio-inspired drug delivery systems & Tissue Repair Materials
13:30-13:50	Keynote-1: Cooperative Tissue Engineering for Functional Tissue Fabrication Speaker: Michiya Matsusaki *Graduate School of Engineering, Osaka University, Japan*	Keynote-3: Cell-adaptable Dynamic Hydrogels for Tissue Engineering Speaker: Liming Bian *South China University of Technology, China*	Keynote-5: Delivery of Therapeutic Genome-Editing Biomacromolecues Speaker: Yuan Ping *Zhejiang University, China*
13:50-14:10	Keynote-2: Keratins as a Sustainable Material for Biomedical Applications Speaker: Kee Woei Ng *Nanyang Technological University, Singapore*	Keynote-4: Innovation and Translation for Bioactive Bone Grafts in China Speaker: Shengmin Zhang *Huazhong University of Science and Technology, China*	Keynote-6: Development of Microneedle Devices With Anisotropic Porous Structure for Biomedical Application Speaker: Chenjie Xu *City University of Hong Kong, Hong Kong, China*
14:10-14:25	Invited-1: Calcium Phosphate Cluster for Rapid Remineralization of Tooth Enamel Speaker: Feng Chen *Fudan University, China*	Invited-4: Durable Immunomodulatory Nanofiber Niche for the Functional Remodeling of Cardiovascular Tissue Speaker: Tonghe Zhu *Shanghai University of Engineering Science, China*	Invited-7: Responsive Release of Nucleic Acid Drugs for Precision Tumor Therapy Speaker: Peifeng Liu *Shanghai Cancer Institute, China*
14:25-14:40	Invited-2: Microneedle Patch for Improved Heart Failure Outcomes in Post Myocardial Infarction Rats Speaker: Wuqiang Zhu *Mayo Clinic, USA*	Invited-5: Study on the Promotion of Tissue Regeneration by Electrical Stimulation in Collaboration with Electroactive Materials Speaker: Wentao Cao *Fudan University, China*	Invited-8: Bio-Responsive Supramolecular Prodrug Hydrogel for Precise Cancer Immunotherapy Speaker: Feihu Wang *Shanghai Jiao Tong University, China*
14:40-14:55	Invited-3: Novel Applications of Cell Sheet Technology in Regenerative Medicine: from in vitro Model to Immunotherapy Speaker: Botao Gao *Guangdong Academy of Sciences, China*	Invited-6: Chemically Modified miRNA Delivery via DNA Tetrahedral Nanostructures Enhances Angiogenesis and Dental Pulp Regeneration Speaker: Xiaoling Wei *Shanghai Stomatological Hospital and School of Sto, China*	Invited-9: Genetically Engineered Cell Membrane-Derived Vesicles for Disease Therapy Speaker: Xudong Zhang *Sun Yat-Sen University, China*

26th June 2025

14:55-15:03	Oral-1: In Situ Autonomous Pore-forming Polyphosphate Coacervate-based Injectable Bone Substitutes Speaker: Hua Zeng *Tongji University, China*	Oral-3: Single-Atom Nanozyme Combining Bioactive Molecule in Hierarchical Microneedles for Spatiotemporally Treatment of Infected Diabetic Wounds Speaker: Mengting Yin *Tongji University, China*	Oral-5: Targeted Macrophage CRISPR-Cas13 mRNA Editing in Immunotherapy for Tendon Injury Speaker: Shuo Wang *Shanghai Sixth People's Hospital, China*
15:03-15:11	Oral-2: Design of Inoganic-Organic Biommetic Scaffolds for Neurovascularized Bone Repair Speaker: Tingting Wu *Guangdong Academy of Sciences, China*	Oral-4: Promoting Effects of Sustainably Degradable and Bioactive Magnesium Phosphate Cement in Rabbit Bone Regeneration and Screw Fixation Models Speaker: Xinyu Qu *Tongji University, China*	Oral-6: Polyphenol/Metal Ion Mediated Macrophage Metabolism Reprogramming to Promote Wound Repair Speaker: Yunlong Yu *Army Medical University, China*
15:11-15:25	Coffee Break		
Chair	Muhammad Shafiq, Ming Ma	Jun Li, Yuting Wen	Xiumei Mo, Tong Wu
	No.1 Meeting Room: Biomaterials for Nanomedicine and Tissue Engineering & Innovative Biomaterials for Organ Models and Tissue Repair	No.2 Meeting Room: Innovative Biomaterials for Organ Models and Tissue Repair & Biomaterials for Nanomedicine and Tissue Engineering	No.3 Meeting Room: Drug Delivery Systems & Electrospinning Biomaterials
15:25-15:45	Keynote-7: Integrating Bioprinting with Organoids for Biomedical Applications Speaker: Min Wang *The University of Hong Kong, Hong Kong, China*	Keynote-9: Supramolecular Self-Assembled Polymers and Hydrogels for Nanomedicine and Sustainability Applications Speaker: Jun Li *National University of Singapore (Chongqing) Research Institute, China*	Keynote-11: Nanoparticle-mediated Drug Delivery System for Anti-cancer Therapy Speaker: Won Jong Kim *POSTECH, South Korea*
15:45-16:05	Keynote-8: Development of elemental technologies for a new platform for creating practical Whole Organ Engineered-Livers Speaker: Hiroyuki Ijima *Kyushu University, Fukuoka, Japan*	Keynote-10: Is Subchondral Bone Remodeling a Result or a Contributor to OA Progression? Speaker: Chaozong Liu *University College London, United Kingdom*	Keynote-12: Electrospun Nanofiber for Soft and Hard Tissue Engineering Speaker: Xiumei Mo *Donghua University, China*
16:05-16:20	Invited-10: Combined 3D Microfluidic Vortex Focusing And High-Throughput Screening for Self-Assembly Synthesis of Homogeneous Nanomedicine Speaker: Ming Ma *Shanghai Institute of Ceramics, CAS, China*	Invited-13: Wet-Spun Biomimetic Fibers for Enhanced Spinal Cord Injury Repair Speaker: Keni Yang *Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China*	Invited-16: Development of fibre-Microsphere Composite System for Modulation of Cell Behaviour and Tissue Regeneration Speaker: Tong Wu *Qingdao University, China*

26th June 2025	16:20-16:35	Invited-11: Imparting Multifunctionality to Polymeric Biomaterials and Harnessing Nature's Wisdom to Promote Biocompatibility of Medical Implants for Regenerative Medicine and Tissue Engineering Speaker: Muhammad Shafiq *Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion (KIIP), Japan*	Invited-14: Cyclodextrin-Based Supramolecular Delivery Systems for Near-Infrared Dye-Mediated Diagnosis and Photothermal Therapy Speaker: Yuting Wen *NUS (Suzhou) Research Institute, China*	Invited-17: Nanofibrous Biomaterials with Improved Bio-Interface for Wound Treatment Speaker: Xiaoran Li *Donghua University, China*
	16:35-16:50	Invited-12: On the Development of Hypoxia-mimicking and Immuno-regulatory Polycaprolactone (PCL)-based Small-diameter Vascular Grafts for In Situ Blood Vessel Regeneration Speaker: Muhammad Rafique *Shanghai Jiao Tong University, China*	Invited-15: A Wound Exudate-Activated Yarn Battery for Antimicrobial Electrical Fabric Dressing Speaker: Liqun Xu *Southwest University, China*	Invited-18: The Quercetin/Paclitaxel Loaded Nanoparticles as Pulmonary Drug Delivery System for Lung Cancer Speaker: Weifen Zhang *Shandong Second Medical University, China*
	16:50-16:58	Oral-7: Conjugation of Cyclic RGD-Modified PEG Chains to Checkpoint Blockade Antibodies Enhances Antitumor Efficacy and Targeted Delivery Speaker: Wei Cheng *Institute of Science Tokyo, Japan*	Oral-11: Drug-Free Extracellular Vesicles: A Novel Spatiotemporal Controlled Release Engineering Strategy for Osteogenesis and Anti-Inflammatory Microenvironment in Rotator Cuff Regeneration Speaker: Guoyang Zhang *Shanghai Sixth People's Hospital, China*	Oral-15: Spatiotemporal Sequential Chidamide Delivery Regulates Macrophage Reprogramming in Response to the Tumor Microenvironment through HDACs-STAT3 in the Progression of Lymphoma Speaker: Bo Dai *Huashan Hospital Affiliated to Fudan University, China*
	16:58-17:06	Oral-8: Vascular Endothelial Growth Factor and Endogenous Calcium-Capturing Hydrogels Promote Bone Tissue Regeneration Speaker: Zhengchao Yuan *Donghua university, China*	Oral-12: Dual-grafted Dual-Network Hydrogel System Promotes Synergetic Regeneration of Heterogeneous Interfaces Speaker: Weixuan Lin *Shanghai Sixth People's Hospital, China*	Oral-16: PSA(pressure-sensitive adhesive) Transdermal Patch by Way of Melt Electrospinning: Fabrication and Performance Speaker: Haoyi Li *Beijing University of Chemical Technology, China*
	17:06-17:14	Oral-9: Nanoengineered Red Blood Cells and Stem Cell Derivatives for Targeted Therapy Speaker: Jun-Nian Zhou *Beijing Institute of Radiation Medicine, China*	Oral-13: Efficient Encapsulation and Controlled Release of Drugs in Micro- and Nanoparticles Speaker: Wei Li *Huazhong University of Science and Technology, China*	Oral-17: Tuneable Methacrylated Recombinant Human Collagen Hydrogels for 3D Stem Cells Culture and application in wound healing Speaker: Wei Li *The First Affiliated Hospital of Naval Medical University, China*

26th June 2025	17:14-17:22	Oral-10: Development of a PEG-CS Functional Coating Loaded with Sodium Tanshinone IIA Sulfonate for Small-Diameter Artificial Vascular Grafts Speaker: Anlin Yin *Jiaxing University, China*	Oral-14: 3D Printing and Bioactive hydrogels in Tissue Regeneration Application Speaker: Huilong Guo *Guangdong Academy of Sciences, China*	Oral-18: Secretory Fluid-Aggregated Janus Electrospun Short Fiber Scaffold for Wound Healing Speaker: Shutong Qian *Zhejiang University, China*
	17:22-18:00	Poster Session		
	18:30- 20:30	Conference Banquet, No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor		
27th June 2025	Chair	Wenguo Cui, Hongbo Zhang	Gareth Williams, Chia-Hung Chen	Jeremy Teo, Dawei Li
		No.1 Meeting Room: Functional Materials for Biomecial Engineering & Biopolymer Synthesis	No.2 Meeting Room: Biopolymer Synthesis & Functional Materials for Biomecial Engineering	No.3 Meeting Room: Hydrogels & Innovations in skin-based clinical application
	08:30-08:50	Keynote-13: Polysaccharide-Based Nanoformulations for Cardiac Rna-Based Therapeis: From Nano-Design to In Vivo Applications Speaker: Hélder Santos *University Medical Center Groningen, Netherlands*	Keynote-15: Fluidic Membrane-Bound Protocells (FMPs): An Adaptive Platform for Next-Generation Intelligent Medicine Speaker: Chia-Hung Chen *City University of Hong Kong, Hong Kong, China*	Keynote-17: Hydrogel-based Mechano-modulation of the Immune System Speaker: Jeremy Teo *New York University Abu Dhabi, United Arab Emirates*
	08:50-09:10	Keynote-14: From Fats to Bone: Applications for Oral & Maxillofacial Regeneration Speaker: Bee Tin Goh *National Dental Centre Singapore, Singapore*	Keynote-16: Developing "Phormulations" for Phages Speaker: Gareth Williams *University College London, United Kingdom*	Keynote-18: Scientific Publishing: An Advanced Perspective Speaker: Xiaoyu Zhang *Wiley, China*
	09:10-09:25	Invited-19: Photocrosslinkable Polymers for Tissue Regeneration Speaker: Xin Zhao *The Hong Kong Polytechnic University, Hong Kong, China*	Invited-22: Centrifugal Spinning-Derived Biomimetic Aerogel for Rapid Hemostasis with Minimal Blood Loss Speaker: Fujun Wang *Donghua University, China*	Invited-25: Continuous Preparation of Robust Hydrogel Fibers Speaker: Dawei Li *Jiangnan University, China*
	09:25-09:40	Invited-20: Biomimetic Design of Functional Activities for Bone Regeneration Speaker: Guoqing Pan *Jiangsu University, China*	Invited-23: Conductive Fibers and Textiles for Biomedical Applications Speaker: Jifu Mao *Donghua University, China*	Invited-26: AI-Enabled Wound Image Analysis for Diabetic Limb Salvage: From Clinical Need to Explainable Intelligence Speaker: Zhiwen Joseph Lo *Woodlands Health, Singapore*

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09:40-09:55	Invited-21: Surface Engineering Unlocks Drug Loading and Controlled Release Speaker: Dongfei Liu *China Pharmaceutical University, China*	Invited-24: 3D Hierarchically Aligned Nanofiber Scaffolds Promote in Situ Tissue Regeneration Through Enhancing Collective Cell Migration Speaker: Shixuan Chen *University of Chinese Academy of Science, China*	Invited-27: Multisite Captured Copper Ions via Phosphorus Dendrons Functionalized Electrospun Short Nanofibrous Sponges for Bone Regeneration Speaker: Liang Chen *Shanghai Jiao Tong University, China*
09:55-10:03	Oral-19: Amyloid-Like Assembly Confinement Enhancing Enzyme-Mimicking Catalytic Antibacterial Therap Speaker: Yonghai Feng *Jiangsu University, China*	Oral-21: A Novel Ligand-Modified Nanocomposite Microparticles Improved Efficiency of Quercetin And Paclitaxel Delivery in the Non-Small Cell Lung Cancer Speaker: Meijun Liu *Shandong Second Medical University, China*	Oral-23: Gene Therapy For Inflammatory Cascade in Intrauterine Injury Through Snail Mucus-Inspired Adhesive Exosomal Hydrogels to Targetedly Regulate Macrophage Polarization Speaker: Xiaojiong Peng *Shandong Second Shanghai First Maternity and Infant Hospital, China*
10:03-10:11	Oral-20: Targeting Lesional Macrophages with B-Glucan Based Biomaterials for Cardiac Therapy Speaker: Zehua Liu *University of Helsinki, Finland*	Oral-22: Advanced Gas Foamed 3D Nanofiber Scaffolds for Tissue Regeneration Speaker: Yujie Chen *Shanghai Tongren Hospital, China*	Oral-24: A chitosan/silk Fibroin Hydrogel (patch) Loaded with Tannic Acid for Promoting Cardiac Function Repair after Myocardial Infarction Speaker: Qingpeng Wang *Wuhan University of Zhongnan Hospital, China*
10:11-10:25	Coffee Break		
Chair	Liang Song, Shanghui Zhou	Kun Liang, Hong Liang Tey	Jing Chen, Liyang Shi
	No.1 Meeting Room: Advanced Biomaterials & Tissue Repair Materials	No.2 Meeting Room: Bioactive glasses and Glass-ceramics for Healthcare Applications & Innovations in skin-based clinical application	No.3 Meeting Room: Biomedical Hydrogels & 3D-printing Biomaterials
10:25-10:45	Keynote-19: Design and Fabrication of Biodegradable Mg Alloy With Superior Strength And Ductility for Bone Implants Speaker: Guangyin Yuan *Shanghai Jiao Tong University, China*	Keynote-21: Innovations in Scar Management Speaker: Hong Liang Tey *National Skin Centre, Singapore*	Keynote-23: Biodegradable Hydrogel Adhesives Based on O-Phthalaldehyde/Amine Crosslinking for Wound Closure and Tissue Repair Speaker: Chaoliang He *Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China*

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10:45-11:05	Keynote-20: Spatial Transcriptomic Landscape Unveils The Critical Dental Follicle Cell Subset Maintains the Quiescence of Replacement Dental Lamina Speaker: Xiaoshan Wu *Xiangya Hospital, China*	Keynote-22: Mg-dopped Chloride-containing Bioactive Glasses for Bone Regeneration Speaker: Xiaojing Chen *Central South University, China*	Keynote-24: Creating Biomimetic Scaffolds for In Vitro Organ Models and In Vivo Tissue Regeneration Speaker: Linpeng Fan *The University of Melbourne, Australia*
11:05-11:20	Invited-28: Autonomous Biomaterials for Precision Bone Repair: Mechanisms, Applications, and Future Directions Speaker: Yuqing Yang *Hainan West Central Hospital, China*	Invited-31: Human Skin Microbiome Sampling Based on a Transepidermal Microprojection Array for Clinical Applications Speaker: Kun Liang *Nanyang Technological University, Singapore*	Invited-34: Mechanical-Electrophysiological Dual-Adaptive Microenvironment Based on Biomimetic Hydrogels Promotes Spinal Cord Injury Repair Speaker: Kunyu Zhang *South China University of Technology, China*
11:20-11:35	Invited-29: Role of Chiral MoS_2 Nanocomposite Membrane in Bone Regeneration Speaker: Fei Yang *Zhongshan Hospital, Fudan University, China*	Invited-32: Antibiotic-Free Nanofibrous Scaffolds for Enhanced Healing of Diabetic Wounds Speaker: Navin Kumar Verma *Nanyang Technological University, Singapore*	Invited-35: Cell Profiles and Dynamics in the Early Stage of Long Bone Critical-Size Defects Using Hydrogel-Based Scaffolds Speaker: Ning Zhang *The Chinese University of Hong Kong, China*
11:35-11:50	Invited-30: An Artificial Piezoelectric-Conductive Integrated Peri-Implant Gingiva Enables Efficient Bacterial Inhibition and Soft-Tissue Integration Speaker: Shengcai Qi *Shanghai Hospital of Stomatology, Fudan university, China*	Invited-33: Diffuse Speckle Pulsatile Flowmetry (DSPF) for Skin Microcirculation Assessment: A Novel Approach for Diabetic Foot Ulcer Monitoring and Peripheral Vascular Disease Screening Speaker: Renzhe Bi *A*STAR Skin Research Labs, Singapore*	Invited-36: Atomic Insights into Self-Assembly of Zingibroside R1 and its Therapeutic Action Against Fungal Diseases Speaker: Junfeng Shi *Hunan University, China*
11:50-11:58	Oral-25: Early Dental Epithelial Development and its Role in Multi-Cusp Molar Morphogenesis Speaker: Xuechun Li *Xiangya Hospital, Central South University, China*	Oral-28: Boron-modified Alkaline-free Silicate Bioactive Glasses with Anti-inflammatory Properties for bone substitutes Speaker: Xiaomei Ru *Central South University, China*	Oral-31: Hydrogel-based Drug and Gas Delivery System for Neuroimmunomodulation in Spinal Cord Injury Speaker: Liyang Shi *Hunan University, China*

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11:58-12:06	Oral-26: Acceleration of Calvarial Bone Regeneration with A Multifunctional Hydrogel: Single-cell Transcriptome Analysis Speaker: Dandan Song *Zhongshan Hospital, Fudan university, China*	Oral-29: Incorporating Copper into Fluoride-containing Bioglasses Enhances the inhibition of Streptococcus Mutans Activity and Biofilm Formation Speaker: Yiyan Yu *Central South University, China*	Oral-32: Basic Research and Clinical Application of Ordered Collagen Scaffolds Combined with Human Neural Stem Cells to Promote Spinal Cord Injury Repair and Regeneration Speaker: Yunlong Zou *China-Japan Union Hospital of Jilin University, China*
12:06-12:14	Oral-27: A PCL/HAp/GO Composite Scaffold with Time-Sequenced Release of Angiogenic and Osteogenic Bioactive Components for Critical-Sized Bone Defect Repair Speaker: Ziying Feng *Shanghai Fifth People's Hospital, China*	Oral-30: Facile Gelation of Collagen via Epigallocatechin Gallate (EGCG) for Topical Therapeutic Applications Speaker: Chixuan Liu *ASTAR Skin Research Labs, Singapore*	Oral-33: Engineering Multifunctional Scaffolds with Osteoimmunomodulatory Niches for Augmented Bone Regeneration by Regulating CCL2/CCR2 Pathway Speaker: Hongyu Zhao *Shandong University, China*
12:14-13:30	Lunch in Manhattan Restaurant, Fuyue Hotel Shanghai first floor		
Chair	Changyou Gao, Yang Zhu	Xiangyang Shi, Kui Luo	Jingwei Xie, Zhengwei You
	No.1 Meeting Room: Self-adaptive biomaterials for tissue repair and regeneration & Scaffold Design and Fabrication	No.2 Meeting Room: Nanomedicine and Nonobiotechnology & Nanomedicine and Nonobiotechnology	No.3 Meeting Room: Nanomedicine and Nonobiotechnology & Nano- and Microtechnologies for Drug Delivery and Tissue Regeneration
13:30-13:50	Keynote-25: Immunomodulating polymers for tissue repair and regeneration Speaker: Changyou Gao *Zhejiang University, China*	Keynote-27: Supramolecular Cell Engineering for Targeted Therapy Speaker: Ruibing Wang *University of Macau, Macau, China*	Keynote-29: Emerging New Forms of Electrospun Nanofibers for Tissue Regeneration Speaker: Jingwei Xie *University of Nebraska Medical Center, USA*
13:50-14:10	Keynote-26: nCaP-Reinforced PCL Composites for Bone Repair Application Speaker: Zuyong Wang *Hunan University, China*	Keynote-28: Mesenchymal Stem Cell-Derived Exosomes Enable Brain Delivery of Bioactive Phosphorous Dendrimers and Quercetin to Tackle Parkinson's Disease via Cooperative Modulation of Inflammatory Immune Microenvironment Speaker: Xiangyang Shi *Donghua University, China*	Keynote-30: Biomimetic Elastomers, 3D Printing and their Biomedical Applications Speaker: Zhengwei You *Donghua University, China*

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14:10-14:25	Invited-37: Selective and Responsive Antimicrobial Biomaterials for Combating Drug-resistant Bacterial Infections Speaker: Peng Li *Northwestern Polytechnical University, China*	Invited-40: Activatable Nano Aggregation Systems for Tumor Diagnosis and Treatment Speaker: Tao Yi *Donghua University, China*	Invited-43: Chemically Modified Silk Fibroin for Regenerative Medicine Speaker: Chengchen Guo *Westlake University, China*
14:25-14:40	Invited-38: Natural Macromolecule-Based Multifunctional Antibacterial Coatings Speaker: Shun Duan *Beijing University of Chemical Technology, China*	Invited-41: Peptide Dendritic Polymers-based Nanomedicines for Cancer Therapy Speaker: Kui Luo *West China Hospital, Sichuan University, China*	Invited-44: Keratin-polyphenol Bioadhesives for Soft Tissue Attachment to Transcutaneous Bone-anchored Metallic Prostheses Speaker: Sunil Kumar Boda *Indian Institute of Technology Madras, Indian*
14:40-14:55	Invited-39: Anti-ferroptotic Injectable Hydrogel Microspheres Speaker: Yang Zhu *Zhejiang University, China*	Invited-42: *In Vivo* NMR Relaxation Study of Human Skin Speaker: Bányai István *University of Debrecen, Hungary*	Invited-45: Light-responsive Pullulan-based Hydrogels For Spinal Tissue Regeneration Speaker: Greeshma Thrivikraman *Indian Institute of Technology Madras, Indian*
14:55-15:03	Oral-34: Inflammation-modulating Elastic Decellularized Extracellular Matrix Scaffold Promotes Meniscus Regeneration Speaker: Yangfan Ding *Donghua University, China*	Oral-36: Immunomodulatory Hydrogel Loaded with Curcumin and Tannic Acid Assembled Nanoparticles for Radiation-Induced Dermatitis Repair Speaker: Wenjie Sun *The Second Affiliated Hospital of Wenzhou Medical, China*	Oral-38: Electrically Conductive and Anti-Inflammatory Hydrogel-Based Nerve Guidance Conduits for Enhanced Peripheral Nerve Regeneration Speaker: Jiahui Song *Donghua University, China*
15:03-15:11	Oral-35: "Restauro" Strategy: Siderophore-Like Antibiofilm Coating Combats Prosthetic Joint Infection and Preserves Implants via Bacterial Ferroptosis-Like Death Speaker: An Liu *The Second Affiliated Hospital of Zhejiang University, China*	Oral-37: Mesoporous Copper Sulfide-Based Nanocomposites for Non-oxygen Dependent Free Radicals-assisted Photothermal Therapy of Uveal Melanoma Speaker: Linxin Chen *Wenzhou Medical University, China*	Oral-39: Precision Endothelialization of Vascular Scaffolds via Bioorthogonal Chemistry Speaker: Mingyu Li *Shanghai Jiao Tong University, China*
15:11-15:25	Coffee Break		

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	Chair	Teoh Swee Hin	Xiumei Wang, Wenchuan Zhang	Juan Wang, Xiaoyu Han
		No.1 Meeting Room: Tissue Engineering & ZRX Entrepreneurship Awards	No.2 Meeting Room: Tissue Engineering & Neural Medical Engineering	No.3 Meeting Room: New techniques and methods for tissue repair & Advanced Biomaterials
	15:25-15:45	Keynote-31: Regenerative implants: The leading edge of implant innovation Speaker: Yujing Lim *Osteopore, Singapore*	Keynote-33: Bioelectronics for Tissue Engineering: A Review on Materials and Design Strategy in 3D Speaker: Wai Yee Yeong *Nanyang Technological University, Singapore*	Keynote-36: Self-Powered Medical Devices Speaker: Zhou Li *Beijing Institute of Nanoenergy and Nanosystems, China*
	15:45-16:05	Keynote-32: Review of Light and Ultrasound-Activated Therapies for Solid Tumors Development of a Biomaterial Platform Capable of Environment-Selective Activation Speaker: Hwa Liang Leo *National University of Singapore, Singapore*	Keynote-34: Medicine-Engineering Interdisciplinary Research based on Innovation and Industrialization of High-end Biomedical Materials Speaker: Qiqing Zhang *Institute of Biomedical Engineering, Chinese Acade, China*	Keynote-37: Bionic Scaffolds/microspheres from Microfluidics for Bone Regeneration Speaker: Lei Yang *Zhejiang Academy of Agricultural Sciences, China*
	16:05-16:25	Invited-46: Novel degradable piezoelectric-induced PHBV/CS/HA scaffolds to achieve dual effects of endogenous osteogenesis and antibacterial properties by piezoelectric stimulation and ultrasonic action Speaker: Yan Xiong *Army Medical University, China*	Keynote-35: Integrating Hydrogels Manipulate ECM Deposition for Specific Neural Reconnections Speaker: Liumin He *Sun Yat-sen University, China*	Keynote-38: Light/ultrasound-Driven Organic-Inorganic Hybrid Nanomaterials Speaker: Nuo Yu *Donghua University, China*
	16:25-16:40	Invited-47: Chitosan: A Sustainable Bioresource for Biomedical and Agricultural Innovation Speaker: Tarig Yasin *Pakistan Institute of Engineering & Applied Sciences(PIEAS), Islamabad, Pakistan*	Invited-48: Physical Stimuli-responsive Biomaterials for Cell Modulation, Tissue Repair, and Clinical Applications Speaker: Qihui Zhou *University of Health and Rehabilitation Sciences, China*	Invited-51: Lubricated Injectable Electroactive Short Fibers Facilitate Cartilage Repair Through Piezoelectric Conversion Speaker: Jieliang Shen *Bishan District People's Hospital of Chongqing, China*
	16:40-16:55	ZRX Entrepreneurship Presentation	Invited-49: Counteracting Immunodepression By Extracellular Matrix Hydrogel for Traumatic Brain Injury Repair Speaker: Xi Chen *East China University of Science and Technology, China*	Invited-52: Short Fiber Nasal Drops for Treating Brain Neurological Disorders Speaker: Juan Wang *Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, China*

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16:55-17:10	ZRX Entrepreneurship Presentation	Invited-50: Tissue-scaffold-Mimicking Electronics for Seamless Integration of Electronics With Living Tissues Speaker: Xiaochuan Dai *Tsinghua University, China*	Invited-53: AI-Driven Design of Nerve Conduits for Advanced Mechanical-Electrical Microenvironment Control in Nerve Regeneration Speaker: Haoyu Wang *Xi'an Jiaotong University, China*
17:10-17:18		Oral-40: 3D Bioprinted Dynamic Bioactive Living Construct Enhances Mechanotransduction-Assisted Rapid Neural Network Self-organization for Spinal Cord Injury repair Speaker: Jia Yang *Tsinghua University, China*	Oral-43: Biosynthesis of Lysosomally Escaped Apoptotic Bodies Inhibits Inflammasome Synthesis in Macrophages Speaker: Jiayi Mao *Shanghai Ninth People's Hospital, China*
17:18-17:26		Oral-41: Enhanced Therapeutic Potential of A Self-Healing Hyaluronic Acid Hydrogel for Early Intervention in Osteoarthritis Speaker: Shuhui Yang *Zhejiang Sci-Tech University, China*	Oral-44: Ultrasound-Responsive Electroactive Hydrogel Modulates Macrophage Electrophilic Stress to Disrupt Inflammatory Vicious Cycle and Promote Tendon-Bone Healing Speaker: Jindong Tan *The First Affiliated Hospital of Chongqing Medical University, China*
17:26-17:34		Oral-42: Self-setting Polyphosphate Coacervate Composites for Hard Tissue Repair Speaker: Bing-Qiang Lu *Fudan University, China*	Oral-45: The promotion of cartilage regeneration by photocurable methylacryloyl gelatin loaded with injectable autoconcentrated growth factor Speaker: Yuan Xu *Army Medical University, China*
17:34-17:50	Closing Ceremony and Awards for Poster (No.1 Meeting Room)		
18:00-20:00	Dinner for Plenary, keynote, invited speaker (No.1 Yuegui Hall (悦贵厅1号), Fuyue Hotel Shanghai Second floor)		

Poster

P-01	The dexamethasone mesoporous polydopamine nanoparticles-based fibrous poly (L-lactide-co-ε-caprolactone) egg membrane dressings enable skin regeneration	Lu Han	Donghua university
P-02	Developing an enzyme-free adipose stem cell extraction method from buccal fat pad for oral-maxillofacial bone regeneration	Chau Sang Lau	National Dental Centre Singapore
P-03	3D Printing Construction and Application Research of Anti-Inflammatory Bioresorbable Airway Stent	Chuhan Zhang	Donghua university
P-04	3D printed ALA-Eth/MgO/PLCL/PLGA composite scaffold by low-temperature deposition modeling for innervated bone regeneration	Miaoxuan Dai	Shanghai Ninth People's Hospital
P-05	Functionally Graded Scaffold with M2 Macrophage-Derived LncRNA-Encoded peptide: Mechanistic and Therapeutic Evaluation for Rotator Cuff Repair	Hao Feng	Donghua University
P-06	Dual-Targeting Liposome against Acne through Coordinated Microbial Eradication and Inflammatory Pathway Inhibition	Lu Shang	National University of Singapore (Suzhou) Research
P-07	Fabrication of a novel core–shell with tetradecyl dimethyl benzyl ammonium–modiffed montmorillonite interlayer nanoffbrous membrane and its antimicrobial properties	Kuihua Zhang	Jiaxing University
P-08	LEGO®-inspired Modular Bioinks for 3D Bioprinting In Vitro Models	Ke Zhou	NUS (Suzhou) Research Institute
P-09	Protective effect of berberine on cochlear hair cell injury induced by neomycin	Yiyin Pan	Donghua university
P-10	Oxidized dextran/chitosan-ibuprofen conjugate hydrogel for soft tissue repair and regeneration	Wenxin Wang	Donghua university
P-11	Effect of lavender essential oil on properties of chitosan-based films	Mengyue Wei	Shanghai Zhongqiao Vocational and Technical Univer
P-12	Sandridge-Structured Silk Fibroin Microneedles with High-Capacity Insulin Loading for Enhanced Diabetes Therapy	Yanai Chen	Soochow University
P-13	Boron-Doped Silica/Chitosan-based Elastic Three-dimensional Sponge Scaffold for Bone Regeneration	Zheng Lei	Donghua University
P-14	Anti-inflammatory and antibacterial hydrogel for muscle defects repair	Xingheng Guan	Donghua University
P-15	Three-Dimensional Composite Aerogel Scaffolds based on Electrospun Poly(lactic acid)/Gelatin and Silica-Strontium Oxide Short Fibers Promote Bone Defect Healing	Jie Cui	Donghua university
P-16	Composite Aerogel Scaffolds Containing Flexible SiO2 Fiber and Tricalcium Phosphate Enable Skin Regeneration	Xinyi Wang	Donghua University
P-17	Procyanidin-crosslinked gradient silk fibroin composite nanofiber scaffold with sandwich structure for rotator cuff repair	Panpan Shang	Shanghai Zhongqiao Vocational And Technical Univer
P-18	Modified Highly Elastic 3D Nanofiber Embolic Scaffolds for Precise in Situ Embolization Therapy	Pengfei Cai	University of Freiburg
P-19	Multilayer biomimetic scaffolds functionalized with stem cells-recruiting and angiogenic peptides for enhanced bladder regeneration	Yin Yang	Shanghai General Hospital
P-20	Layer-by-layer assembly of chitosan/lentinan polysaccharide nanofibrous membranes for antimicrobial and tumor synergistic therapy after lung surgery	Dangwei Li	Wuhan University
P-21	Self-Assembled Nanostructures of 3Ph-imi[FeCl4] as a Strong Ice Recrystallization Inhibitor	Jie Yang	Tianjin University
P-22	pH-responsive Dissociable Liposome/Ferritin Nanoparticles for Treating Acute Epilepsy through Regulating Microvascular Stabilization and Remodeling Inflammatory Microenvironment	Yang Rong	Tianjin university
P-23	Spiral Ganglion Cell Regeneration via Organ of Corti Organoids Constructed with MgCl2/Gel/HA Conductive Hydrogel	Yingjie Wang	Donghua University

Poster

P-24	Antifouling and high permeability hydrogel devices for long-term immunoisolation of islet transplants in type 1 diabetes	Danyang Chen	Tianjin University
P-25	Biomimetic wrinkle microstructures for tissue engineering	Honghao Hou	Southern Medical University
P-26	Glucose-Responsive Self-Healing Hydrogels Promote Diabetic Wound Healing	Xianrui Xie	Binzhou medical university
P-27	Bioorthogonal targeted cell membrane vesicles/cell-sheet composites reduce postoperative tumor recurrence and scar formation of melanoma	Xinrui Yang	Sun Yat-sen University/ Guangdong Academy of Science
P-28	A novel biodegradable elastomer with anticoagulant and antiplatelet properties for vascular tissue engineering	Weizhong Wang	Shanghai East Hospital, Tongji University School o
P-29	3D printed high-strength natural polymer hydrogel bilayer scaffold for cornea regeneration	Xiongfeng Nie	Tianjin University
P-30	ROS Homeostasis Protective Hydrogel Inhibiting Microglial Ferroptosis for Neuropathic Pain Alleviation and Spinal Cord Injury Repair	Zhiwen Zeng	Guangdong Academy of Sciences
P-31	Osteogenic surgical sutures for tendon traction and fixation: A model of achilles tendon sleeve avulsion	Xiao Yu	Donghua University
P-32	Biomimetic mineralized piezoelectric PLLA scaffolds for endogenous bone regeneration	Xi Cui	Chinese Academy of Sciences
P-33	Magnesium hydride induced hydrogen therapy for enhanced sonodynamic therapy	Jing Huang	Chinese Academy of Sciences
P-34	Integrating a three-dimensional radially aligned fibrous scaffold with physical therapy to manipulate bone regeneration	Longfei Li	Beijing Institute of Nanoenergy and Systems
P-35	Light-Triggdered Multiphysics-Coupled Schottky Superstructure for Electrical Stimulation and Cell Differentiation Prediction with AI	Jianying Ji	Beijing Institute of Nanoenergy and Nanosystems
P-36	Anti-Pseudomonas aeruginosa phage-loaded electrosprayed lactose particles	Liu Sai	University College London
P-37	Development of Smart Piezoelectric Scaffolds for Bone Regeneration	Hui Zheng	Hunan University
P-38	High-Throughput Screening Based on Chick Embryo Chorioallantoic Membrane(CAM) Model: Comprehensive Evaluation Study on Biocompatibility of Biomaterials and Angiogenic Effects	Chang Yan	Hunan University
P-39	Applications of piezoelectric biomaterials in treatment of periodontitis	Peng Liu	Hunan University

ZRX ENTREPRENEURSHIP E-POSTER

EP-01	SupGel-Based Organoid Technology Empowering Regenerative Medicine	Liming Bian	South China University of Technology
EP-02	Chiral MoS_2 Nanocomposite Membrane in Regulating Bone Regeneration	Yiling Yang	Fudan University
EP-03	BioEgg Innovations Ltd. for Biocompatibility Testing—"BioEgg Lab-in-Box"	Mengqi Zhao	Hunan University
EP-04	Osteogenic Surgical Sutures for Tendon Traction and Fixation: A Model of Achilles Tendon Sleeve Avulsion	Xiao Yu	Donghua University
EP-05	OrniGen Innovations Pte Ltd-Fish Collagen Enterprise	Pengfei Yan	Hunan University
EP-06	proCAR-Gel: A Hydrogel-Based Platform to Augment CAR-Macrophage Immunotherapy	Yan Zhang	Tsinghua University
EP-07	Acellular Piscine Dermal Matrix as a Soft Tissue Filler	Dongsheng Li	Binzhou Medical University

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Advanced Fiber Materials encourages the exchange of ideas among chemists, physicists, material scientists, energy/environmental/biomedical researchers, engineers and other researchers who are active at the frontiers of all fiber-related fields. Advanced Fiber Materials publishes original and review articles on fiber and fiber-related devices as well as their applications, including:

· The design and synthesis of novel polymers for fibers
· Chemistry and physics in fibers and textiles
· High-performance fibers and composites
· Carbon nanotube fibers and graphene fibers
· Nano-technologies in fibers and polymers
· Design, fabrication and application of nanofibers
· Natural fibers and biomimetic polymers
· Smart fibers, textile and wearable intelligent devices
· Fiber-based artificial issues and robots
· Multifunctional and multimaterial fibers
· Environment-friendly fibers and fiber-related materials

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The journal adopts a single-blind peer-review system, where the reviewers are aware of the names and affiliations of the authors, but the reviewer reports provided to authors are anonymous. Authors do not need to pay anything for publication.

The authors are kindly invited to submit their paper to Advanced Fiber Materials via the Editorial Manager system (https://www.editorialmanager.com/afms/default.aspx). The author is asked to upload the cover letter, paper or supporting information in the form of words or movies, following Instructions for Authors on the journal homepage.

Kind regards,
Editor-in-Chief: Prof. Meifang Zhu
Donghua University, China

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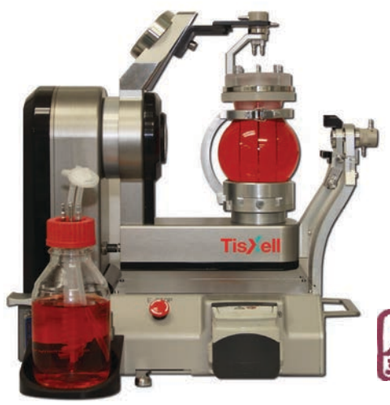
TisXell Novel Approach

●创新设计

- ▶ 为双轴，单轴和摇摆模式独立控制的驱动轴。
- ▶ 连续灌流集成，可选择的速度蠕动泵。
- ▶ 氧合柱的装置，以方便气体交换。
- ▶ 4端口中型水库可选配传感器支架，安置pH和溶解氧探头。
- ▶ 热隔离系统驱动程序和控制器有单独的控制台。
- ▶ 系统可被放置在CO_2培养箱或用于桌上系统以外部控制器。

● *Innovative* Design

- ▶ Independently controlled drive axes for biaxial, single axis and swing modes.
- ▶ Continuous perfusion with integrated, selectable speed peristaltic pump.
- ▶ Oxygenator unit to facilitate gaseous exchange.
- ▶ Standard 500mL 4-port medium reservoir bottle with optional sensor holders to house pH and DO probes; for easy replacement during runs.
- ▶ Heat isolated system drivers and controller in separate console.
- ▶ System may be placed in a CO_2 incubator or used as a benchtop system with external controllers.



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博慧生物 BIOWAY

博慧（浙江）生物技术有限责任公司
Zhejiang Bioway Biotechnology Co., Ltd.

Company Profile

Zhejiang Bioway Biotechnology Co., Ltd., was established in 2022 and is an enterprise incubated based on the cutting-edge technologies of Zhejiang University and Shaoxing Institute of Zhejiang University. Bioway is a technology-driven innovator focused on biomedical R&D and precision manufacturing, building a full-spectrum industrial chain from raw materials to medical end-products.

Bioway's R&D team is spearheaded by Professor Changyou Gao , a national-level talent. In 2024, it was awarded the titles of "Home of Celebrities" Entrepreneurial Team of Shaoxing and Leading Entrepreneurial Team of Zhejiang Province. It was also recognized as a Technology-based Small and Medium-sized Enterprise and an Innovative Small and Medium-sized Enterprise of Zhejiang Province in 2024. The team holds four core invention patents both domestically and internationally.

Bioway has established three core development platforms: medical-grade raw materials, medical devices, and consumer healthcare products. Bioway has successfully launched more than ten products, including skin mucosal antibacterial agent, antibacterial and deodorizing pet set, and dietary fiber powdered beverage. Our first Class II medical device has completed quality system certification. Multiple devices are expected to be submitted for registration review this year.

Major Product

慧清宁®皮肤黏膜抗菌剂Antibacterial agent for skin and mucosa

Spraying product:

Nontoxic solution with broad-spectrum antibacterial and anti-virus properties

- Broad-spectrum killing of bacteria, fungi and viruses
- Anti-allergy, dermatitis, itching
- Promote tissue repair
- Completely non-toxic, no hemolytic coagulation
- Skin, mouth, nasal cavity, private parts
- No alcohol, quaternary ammonium salt, iodine, hydrogen peroxide, hypochlorite, borneol or other drugs

Indications suggested by users:

- ✓ Oral hygiene
- ✓ Sore mouth, swollen gums
- ✓ Acne treatment
- ✓ Insect bite (mosquito bite)
- ✓ Wounds, ulcers, bedsores
- ✓ Rhinitis, dermatitis, eczema, herpes， etc

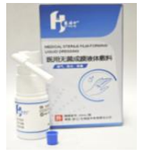
➢ >99.9% killing efficiency for Escherichia coli, Staphylococcus aureus, and Candida albicans etc.

➢ >99.9% killing efficiency for coronavirus, influenza virus, herpes virus, and HPV and RSV etc.

Hyperbranched poly-L-lysine

Antibacterial and deodorizing pet set

Dietary fiber powdered beverage



Medical sterile film-forming liquid dressing

Add.: 1423 Renmin East Road, Shaoxing City, Zhejiang Province
Tel: 0575-88622530 **Web:** biowaybiotech.com
E-mail: contact@biowaybiotech.com

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Shanghai Difa Instrument Co., Ltd. is a professional agent of instruments in the field of life sciences. Since its establishment in 2008, with the help and support of its customers, it has become a well-known instrument supplier in Shanghai. Our company acts as an agent for Tanon Live Animal Imaging, Biogenous organoids solutions, Countstar Spica Live Cell Imaging and Analysis system, Hvita 3D live cell automatic perfusion culture system,Mindray animal care solutions, Nikon microscope, HealForce biosafety cabinet and incubator, Tecan Multifunctional ELISA reader, Rephile pure water system, Zealway sterilizer and other equipments.

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尼康共聚焦显微镜

迈瑞超声

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类器官打印机

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佛山微迈科技有限公司

Foshan wemaxnano Technology Co., LTD

Foshan wemaxnano Technology Co., LTD. was established in 2002. Our product portfolio includes Electrospinning Machines, Flash Joule Heating Equipment, Nano Dry Ice Cleaning Equipment, and EHD Printing Equipment.In the field of nanofiber new materials, we offer a range of advanced products such as air filtration media, windproof and waterproof breathable fabrics for apparel, fast-dissolving nanofiber membranes for cosmetics, and waterproof breathable membranes for medical use.Our R&D team holds over 200 patents and has collaborated with more than 10,000 clients worldwide. With over 100 industrial cooperation projects globally, we are committed to continuous innovation and outstanding customer service—aiming to deliver high-value solutions tailored to our clients' needs.We warmly welcome partners and collaborators from around the world to connect and explore opportunities with us.

佛山微迈科技有限公司纳米纤维实验室技术有限公司的研发团队成立于2002年。公司装备产品包括：静电纺丝机、闪蒸焦耳热设备、纳米干冰雪花清洗设备、EHD喷印设备等；纳米纤维新材料产品包括：空气过滤材料、服装用防风防水透气面料、美妆用速溶纳米纤维膜，医疗用防水透气膜等。公司研发团队拥有200多项专利，与10000多家合作客户合作，在全球范围内开展了100多个工业合作案例，公司一直秉持着技术创新和客户服务的理念，努力为客户创造更有价值的产品和提供卓越的服务。我们热烈欢迎来自世界各地的朋友前来洽谈合作。

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企业官网

生纳科技（上海）有限公司
Sunna Technologies (Shanghai) Co., Ltd.

公司简介

Sunna Technologies (Shanghai) Co., Ltd. was established in January 2015, as a high-tech enterprise focusing on the research of small-diameter vascular grafts. It is also the first project introduced from the University of California, Berkeley, through Shanghai Zhangjiang Berkeley Engineering Innovation Center. Sunna was co-founded by Dr. WAYNE WEI-MING DAI, president of CAL Alumni Club of Shanghai, chairman and president of VeriSilicon Microelectronics (Shanghai) Co., Ltd.

Sunna has long been dedicated to specialized fields such as electrospinning, cardiovascular, and regenerative medicine. The company's core R&D products include small-diameter vascular grafts, vascular patches, and related innovations. Its commercially available offerings feature the Sunna stereoscopic nanofiber protective masks, while ongoing research focuses on advanced nanofunctional fiber membrane materials, such as the nanofiber solid facial masks.

生纳科技（上海）有限公司成立于 2015 年 1 月，是一家专注于研究小口径人工血管的高科技企业；是上海张江伯克利工程创新中心从美国加州大学伯克利分校引进的第一个项目。公司由上海伯克利校友会会长，芯原股份创始人、董事长兼总裁戴伟民博士联合创立。

生纳长期深耕于静电纺丝、心血管和再生医学等细分领域。主研产品小口径人工血管、血管补片等，上市产品为生纳立体纳米纤维防护口罩，另在研生纳纳米固态面膜等纳米功能纤维膜材料。

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WISENT CORPORATION

WISENT Inc. has been established in Canada since 1992. In 2009, WISENT entered China and established WISENT Biotechnology (Nanjing) Co, LTD. WISENT has supplied leading institutions and bio-pharmaceutical companies with high quality, consistent, and reliable bio-products.

WISENT manufactures and offers a wide variety of tissue culture products and ultra-pure bio-chemicals for molecular biology and microbiology.

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公司简介

北京新锐佰纳科技有限公司是一家高科技技术企业。专门从事研发、生产各类实验室及工业级量产静电纺丝纳米纤维膜设备及相关产品。产品种类齐全，具有目前国内种类最为齐全的纳米纤维制造设备，及多种纳米纤维制造方式。

Company Profile

Beijing Technova Technology Ltd is a high-tech enterprise, which specializes in research and production of various laboratories, industrial-grade electrospun nano-fibermembrane equipment and related products. Our company provides not only a full range of products, but also the most varieties of nano-fiber manufactur-ing equipments and modes in China at present.

产品种类 Products

电纺丝试验装置-标准型TEADFS-100
Nano fiber test equipment -standard TEADFS-100

电纺丝试验装置-共轭型TEADFS-103
Nano fiber test equipment - conjugated TEADFS-103

多针头膜成型设备 TEADFS-400
Multi-needle nano-fiber equipment TEADFS-400

电纺丝试验装置-多功能纳米纱线型TEADFS-700
Nano fiber test equipment -Nano yarn TEADFS-700

离心式纺丝设备 TEADFS-900
Centrifugal nanofiber equipment TEADFS-900

多种纺丝单元复合一体式静电纺丝装置TEADFS-550
Multi-unit composite nano fiber equipment TEADFS-550

小型量产式静电纺丝设备TEADFS-1000-200
Small manufacturing nano -fiber equipment TEADFS-1000-200

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Large manufacturing nano-fiber equipment TEADFS-1000

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东华大学生物与医学工程学院诚聘英才

东华大学生物与医学工程学院的成立是学校为进一步围绕国家战略发展生物经济、服务上海地方经济发展、服务上海发展生物医药等三大先导产业、更好地推进学校“双一流”建设的重要举措。学院历史可追溯至 2000 年创办的生物工程专业，2004 年成立了生物科学与技术研究所，2007 年生物科学与技术研究所合并原有的生物工程系，成为新的化学化工与生物工程学院。2022 年成立了新的生物与医学工程学院。

学院现在有专任教师 45 人，其中正高级 14 人、副高级 23 人、中级 6 人。纳入高层次人才计划教师超过 60%，包括国家杰出青年基金获得者 1 名、上海市“东方学者”特聘教授 3 名、上海市海外高层次人才计划 1 名、上海市领军人才 1 名、上海市优秀学术/技术带头人 3 名、教育部“新世纪优秀人才”2 名、上海市浦江人才 13 名、上海市青年科技启明星人才 1 名、上海市“晨光计划”青年人才 2 名、校特聘教授 2 名等。

学院设有生物医学工程系、生物科学与技术系和一个实验教学中心。拥有“生物工程”国家一流本科专业，生物医学工程本科专业（2025 年招生）。学院拥有 2 个学术型硕士学位授权点（生物医学工程、生物学）和 1 个专业硕士学位授权点（生物与医药），1 个交叉学科博士学位授权点（生物材料学）和 1 个专业学位博士点（材料与化工），形成了具有本、硕、博三级培养的完整人才培养体系。

学科方向包括生物材料与医疗器械、合成生物学、重大疾病诊疗与纳米医学、柔性电子与智慧医疗四个方向；拟建立生物医用材料与智慧医疗平台、抗衰老与重大疾病诊疗平台、合成生物学与大分子平台、生物学检测平台四个平台。

学院广泛开展国际合作与交流，与美国、德国、新加坡、俄罗斯、葡萄牙等国家有关高校及科研院所保持着密切的科研合作与学术交流，拥有国家留学基金委健康诊疗新技术创新人才培养项目，与多所国外著名高校联合培养研究生，形成了相关领域本、硕、博人才培养高地。

招聘信息

一、招聘岗位专业背景要求

生物医学工程、生物学、医学、纺织科学与工程、材料科学与工程、机械工程、先进制造、医学传感技术、数学、物理学、计算机科学与工程、信息科学、仪器科学与技术、医学影像学、药学等相关学科。

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做人 做事 做学
SHANGHAI ZHONGQIAO VOCATIONAL AND TECHNICAL UNIVERSITY

Recruiting Talents to Join School of Food and Pharmacy at Zhongqiao University

In response to the State Council's "Healthy China" 2030 strategy, the School of Food and Pharmacy is based on the three leading industries in Shanghai, seizing the golden opportunity period of rapid development in the biopharmaceutical, food safety, and precision nutrition industries. It has laid out undergraduate vocational education majors in food quality and safety, food nutrition and health, synthetic biotechnology, and drug quality management, providing strong intellectual and talent support for the development of Shanghai's biopharmaceutical and big health industry clusters, and creating a highland of composite innovative high-quality technical and skilled talents.

At present, the school has a total of 52 full-time teachers, 25 part-time teachers, 23 doctors, and 21 teachers with associate senior titles or above. There are 47 "dual teacher" teachers, accounting for 90.38% of the total (full-time teachers). The school has 11 high-level teachers at the provincial and ministerial levels, including provincial academic and technical leaders, provincial outstanding young science and technology experts, Shanghai Morning Light scholars, and Shanghai Yucai Award winners. There are also 3 talents in the Shanghai Recruitment Project Talent Plan, 2 masters in food testing and baking skills, 1 chief technician in Jinshan District, and 1 Shanghai level innovation team in food quality and safety.

The Food and Drug Comprehensive Training Center covers an area of 6250 square meters and has been approved as a Shanghai Municipal Food and Drug Comprehensive Training Center, a Shanghai Demonstration Virtual Simulation Training Base, a Shanghai Agricultural Product Food Primary\Intermediate\Advanced Skills Appraisal Station, a Drug Advanced Technician Appraisal Station, and the seventh batch of modern apprenticeship pilot programs in Shanghai.

We have practical teaching facilities including high-end instruments and equipment such as gas chromatography-mass spectrometry, high-performance liquid chromatography, and laboratories. Currently, we have more than 30 large laboratory rooms and several auxiliary experimental preparation rooms for teaching.

In recent five years, it has won four national awards, five Shanghai municipal gold awards, and more than 80 silver and bronze awards in China International University Student Innovation Competition, "Internet plus", "Challenge Cup" and other innovation and entrepreneurship competitions. The World Vocational College Skills Competition has won one third prize at the national level, over 20 vocational skills awards at the Shanghai municipal level, two gold medals in the national finals, and two gold medals in the International Genetic Engineering Competition.

Contact information: Jing Ji (Dean) +86 021-13761759916

Introduction of State Key Laboratory of Advanced Fiber Materials

State Key Laboratory of Advanced Fiber Materials（SKLAFM）is hosted by Donghua University, evolving from the former State Key Laboratory for Modification of Chemical Fibers and Polymer Materials. Its origins trace back to China's first chemical fiber specialty. It was founded under the approval of State Development Planning Commission in 1992. It completed the national acceptance in 1996 and passed the national assessment 4 times since 2003. In 2018, SKLAFM was rated as “Excellent State Key Laboratory”. It passed the assessment in 2024, and it is the first key state-level scientific research center of fibers and textiles in China. The laboratory has strongly supported the breakthrough of China's chemical fiber source technology, it has made great contribution to the development of chemical fiber industry of China.

SKLAFM currently focuses on three research themes, including high performance fibers and composite materials, functional fibers and green manufacturing, and intelligent fibers and cutting-edge applications. In 2007, Innovation and Talents Introduction Base of Advanced Fabrication Technology of Fiber Materials was enrolled in the Talents Introducing Program for Disciplinary Innovation of Universities. In 2017, it passed the evaluation and got rolling support of State Bureau of Foreign Affairs and Ministry of Education. In 2018, it was approved to build an international joint laboratory of advanced fibers and low dimensional materials (the "the Belt and Road" international cooperation project); In 2019, 《Advanced Fiber Materials (English)》was founded (included in databases such as SCIE and EI, IF=17.2, JCR Materials Science Q1 Division), and has been selected as a high starting new journal and English language team project in the "China Science and Technology Journal Excellence Action Plan"; In 2021, it was approved for the construction of an advanced fiber and low dimensional material youth scientific innovation practice workstation; In 2024, the laboratory was selected as a practical teaching base for the "Great Ideological and Political Course" in Shanghai.

The laboratory adheres to the leadership of Party building. The current director of the laboratory is Zhu Meifang, an academician of the CAS Member, and the current director of the academic committee is Zhang Xi, an academician of the CAS Member. At present, there are more than 170 fixed personnel, forming a high-level research team with reasonable talent and age structure. There is a public platform for instruments and equipment, with over 300 sets of large instruments and equipment, 26 engineering test lines, and 24-hour online reservation and opening.

SKLAFM promotes the principle of “Openness, Communication, Cooperation and Competition”. As a state-level research center, SKLAFM will adhere to goal orientation, demand orientation, and problem orientation, and carry out strategic, critical, and original research on advanced fiber materials in response to international frontiers and national needs. It will break through key technologies for extreme manufacturing of high-performance, high- function, and high- intelligent fiber materials, establish an internationally leading center for talent cultivation, scientific research, technological transformation, and academic exchange in fiber materials, and build a national strategic scientific and technological force.

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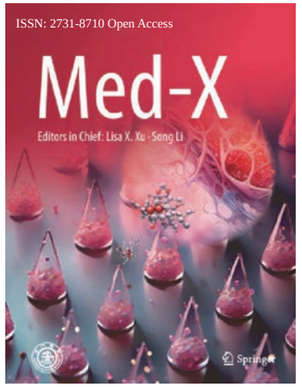

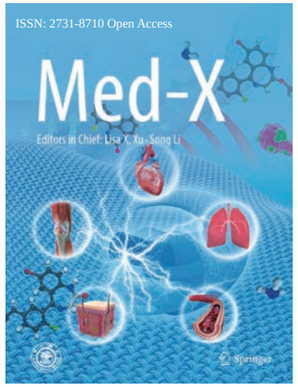

Journal Aim & Scope

Med-X is a peer-reviewed and international journal, launched in 2023 by Shanghai Jiao Tong University and published by Springer Nature. Med-X is dedicated to becoming a comprehensive international top journal in the field of biomedical engineering. The journal aims to provide an interdisciplinary platform for communicating breakthrough discoveries and technologies across the areas of biomedical engineering.

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01 Molecular & Cellular Engineering
02 Biomaterials & Tissue Engineering
03 Drug, Gene and Cell Delivery Systems
04 Immunoengineering
05 Biomechanics & Mechanobiology
06 Biothermal Science & Engineering
07 Biomedical Devices & Biosensors
08 Medical Robotics, Artificial Intelligence, & Telemedicine
09 Biomedical Imaging
10 Bioinformatics & Computational Biology

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02 **26 academicians from both China and abroad**
03 **over 45 highly-cited scholars**

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biomedicines

Aims and Scope of *Biomedicines*

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, clinical studies and applications, biomaterial in biomedical research, natural bioactive molecules, biologics, biosimilar, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology-driven products, targeted therapy, bioimaging, biosensors, biomarkers, biosimilars, and nano-biosimilars.

Main research areas include (but are not limited to):

- Pathogenesis and mechanisms of diseases;
- Cardiovascular diseases;
- Biomaterial in biomedical research;
- Novel targets in various therapeutic areas: cardiovascular, vascular, hematology, oncology, neurology, orthopedics, dermatology, ophthalmology;
- Biomarker discovery and early diagnosis research;
- Drug discovery and development, pharmacotherapy;
- Basic and clinical pharmacology;
- Biopharmaceutical biomedicine: biologics and biosimilars;
- Nanobiotechnological advances in biomedicine: nanomedicine, nanoscaffold implants (synthetic vascular graft), biosensors, bioimaging, gene therapy, vaccine, cell therapy, and tissue engineering;
- Neurobiology and clinical neuroscience;
- Neuromodulation.

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